

## Example DER-10 Community Air Monitoring Plan (CAMP)

Site-specific conditions or additional requirements stipulated by regulatory agencies may necessitate modifications or supplemental monitoring protocols to this document.

### Overview

This Community Air Monitoring Plan (CAMP) has been developed to provide protection for nearby communities, including residences and businesses, from potential airborne emissions resulting from remedial or investigative activities. Real-time monitoring for volatile organic compounds (VOCs) and particulate matter less than 10 microns (Dust) will be conducted at the upwind and downwind perimeter of each designated work area. This CAMP complies with the New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation ([Appendix A](#)) and is supplemented by specific details provided herein.

### Objectives

- Protect the downwind community from airborne contaminant releases.
- Provide a real-time measure of airborne contaminants.
- Implement corrective actions swiftly if action levels are exceeded.
- Document that work activities do not adversely impact off-site air quality.

### Methodology

Dust and VOCs will be continuously monitored at the upwind and downwind perimeter of each work area during activities with the potential to cause airborne emissions. Fugitive dust migration will be visually assessed during this period. A meteorological station will be used at one location on site to record the wind speed and direction every minute. Real-time monitoring will be conducted using an Aeroqual AQS 1 in accordance with the manufacturer's specifications. Monitor performance, calibration and service requirements can be found in [Appendix B](#). The concentration of airborne contaminants above background (site contribution) will be determined by calculating the difference between the upwind (background) and downwind 15 min running averages. The designation of upwind and downwind will be calculated based-on the wind direction and location of monitors in accordance with the methodology described in [Appendix C](#). If the site contribution exceeds the response levels in Table 1, real-time alerts via SMS and email will be sent to designated workers responsible for undertaking correction actions.

Table 1: Response Levels and Actions

Parameter	Response Level (15 min average)	Required Action
VOCs	5 ppm above background	Temporarily halt work, resume when levels drop below 5 ppm.
VOCs	5-25 ppm above background	Halt work, identify emission source, implement corrective actions. Work resumes once levels are below 5 ppm.
VOCs	25 ppm above background	Immediately cease all activities and implement corrective actions.
Dust (PM <sup>10</sup> )	100 µg/m <sup>3</sup> above background or visible dust	Employ dust suppression techniques.
Dust (PM <sup>10</sup> )	Above 150 µg/m <sup>3</sup>	Halt work, reassess, and implement enhanced dust suppression. Resume work when particulate levels drop below 150 µg/m <sup>3</sup> and no visible dust migrates from the site.

## Corrective Actions

Dust and vapor control measures implemented on site may include water spray systems to suppress dust, covering excavation and stockpiles, restricting vehicle speeds to 10 mph and applying vapor suppression foam.

## Quality Assurance and Quality Control (QA/QC)

QA/QC of the CAMP will include a record keeping plan, regular maintenance, calibration and inspection of monitoring instruments, periodic performance audits to validate monitoring data accuracy and operator training to ensure reliable data collection. In addition to these activities, the QAQC methodologies utilized by the Aeroqual AQS 1 are shown below.

All 15 minute recordings will be available for State (DEC and NYSDOH) personnel to review.

Table 2. Documentation and Reporting

Aeroqual AQS1 QAQC Methods	Description
Heated Inlet	Removes the effects of humidity and fog, which can cause false positive readings
PM Auto Zero on Start-up	Daily calibration using a zero filter
VOC Automatic Baseline Correction	Zero check every minute to stabilize readings
Data Back-up	Data is stored locally and securely in the cloud
Monitor Offline	SMS/Email alert if monitor goes offline
PID electrical conductivity test	SMS/Email alert if PID lamp stops working
Filter Change	SMS/Email alert if filter needs changing
Electronic Journal	Records all events including calibration data, alerts and operator maintenance

A daily CAMP report will be prepared and include environmental and monitoring summary, site map, wind rose plot, monitoring data tables and graphs, comparison of results to the response levels and a summary of exceedances.

An example daily CAMP report can be found in [Appendix D](#).